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Applications and problem solving environments: A high performance multi-



perspective vision studio

Eugene Borovikov, Alan Sussman

June 2003 Proceedings of the 17th annual international conference on Supercomputing ICS '03

Publisher: ACM Press

Full text available: Topdf(315.96 KB) Additional Information: full citation, abstract, citings, index terms

We describe a multi-perspective vision studio as a flexible high performance framework for solving complex image processing and machine vision problems on multi-view image sequences. The studio abstracts multi-view image data from image sequence acquisition facilities, stores and catalogs sequences in a high performance distributed database, allows customization of back-end processing services, and can serve custom client applications, thus helping make multi-view video sequence processing effic ...

Keywords: database, distributed system, high-performance, image processing, multiperspective, vision, volumetric reconstruction

2 SPOTS track: Networked infomechanical systems: a mobile embedded networked sensor platform

Richard Pon, Maxim A. Batalin, Jason Gordon, Aman Kansal, Duo Liu, Mohammad Rahimi, Lisa Shirachi, Yan Yu, Mark Hansen, William J. Kaiser, Mani Srivastava, Gaurav Sukhatme, Deborah Estrin

April 2005 Proceedings of the 4th international symposium on Information processing in sensor networks IPSN '05

Publisher: IEEE Press

Full text available: 🔁 pdf(365.69 KB) Additional Information: full citation, abstract, references

Networked Infomechanical Systems (NIMS) introduces a new actuation capability for embedded networked sensing. By exploiting a constrained actuation method based on rapidly deployable infrastructure, NIMS suspends a network of wireless mobile and fixed sensor nodes in three-dimensional space. This permits run-time adaptation with variable sensing location, perspective, and even sensor type. Discoveries in NIMS environmental investigations have raised requirements for 1) new embedded platforms int ...

Keywords: actuation, embedded, mobility, networked, sensor, system

3 Seeing, hearing, and touching: putting it all together Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04 Publisher: ACM Press Full text available: pdf(20.64 MB) Additional Information: full citation Link and channel measurement: A simple mechanism for capturing and replaying wireless channels Glenn Judd, Peter Steenkiste August 2005 Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05 Publisher: ACM Press Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ... **Keywords**: channel capture, emulation, wireless ⁵ Gender differences in cue preference during path integration in virtual environments Francesca C. Fortenbaugh, Sidhartha Chaudhury, John C. Hicks, Lei Hao, Kathleen A. Turano January 2007 ACM Transactions on Applied Perception (TAP), Volume 4 Issue 1 Publisher: ACM Press Full text available: pdf(450.13 KB) Additional Information: full citation, abstract, references, index terms Three studies were conducted to examine whether men and women differ in how they recalibrate their path-integration systems when walking without vision in virtual environments. Distance cues provided by a scene and a tone, which ended each trial, were placed in conflict. Participants briefly viewed a room with a target, which was offset from their midlines and hung inside a doorframe on the far wall. After viewing, participants walked to the target's position until a tone sounded, ending the ... **Keywords**: Gender differences, cue preference, egocentric reference frame, path integration Supporting 3D window manipulation with a yawing mouse Rodrigo Almeida, Pierre Cubaud October 2006 Proceedings of the 4th Nordic conference on Human-computer interaction: changing roles NordiCHI '06 Publisher: ACM Press Full text available: pdf(328.74 KB) Additional Information: full citation, abstract, references, index terms We present an interaction technique based on a yawing mouse (a device that senses the yaw orientation), designed for integral manipulation of 3D desktop windows in a three degrees-of-freedom space. We describe the construction of a prototype. A pilot study is conducted in order to investigate the performance gain expected with the yawing mouse. We then discuss some aspects of the form factors of devices intended to this kind of task.

Keywords: 3D interaction, input devices, integral manipulation, mouse, multiple degree-

of-freedom, usability study

7	Dynamic data driven application simulation: sensor/simulation fusion: DDDAS approaches to wildland fire modeling and contaminant tracking Craig C. Douglas, Robert A. Lodder, Richard E. Ewing, Yalchin Efendiev, Guan Qin, Janice Coen, Mauricio Kritz, Jonathan D. Beezley, Jan Mandel, Mohamed Iskandarani, Anthony Vodacek, Gundolf Haase December 2006 Proceedings of the 38th conference on Winter simulation WSC '06 Publisher: Winter Simulation Conference Full text available: pdf(203.65 KB) Additional Information: full citation, abstract, references	
	We report on two ongoing efforts to build Dynamic Data Driven Application Systems (DDDAS) for (1) short-range forecasting of weather and wildfire behavior from real time weather data, images, and sensor streams, and (2) contaminant identification and tracking in water bodies. Both systems change their forecasts as new data is received. We use one long term running simulation that self corrects using out of order, imperfect sensor data. The DDDAS versions replace codes that were previously run us	
.8	A real-time assistive computer interface for users with motor disabilities	
\$	A. B. Barreto, S. D. Scargle, M Adjouadi June 1999 ACM SIGCAPH Computers and the Physically Handicapped, Issue 64	
	Publisher: ACM Press	
•	Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references	
	This study introduces the design of an integrated assistive real-time system developed as an alternate input device to computers that can be used by individuals with severe motor disabilities. An assistive technology device as defined by the Assistive Technology Act of 1998 is "any item, piece of equipment, or product system, whether acquired commercially, modified, or customized, that is used to increase, maintain, or improve the functional capabilities of individuals with disabilities". The pr	
9	Unsupervised band removal leading to improved classification accuracy of	
	hyperspectral images R. Ian Faulconbridge, Mark R. Pickering, Michael J. Ryan January 2006 Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06 Publisher: Australian Computer Society, Inc. Full text available: pdf(65.81 KB) Additional Information: full citation, abstract, references, index terms	
	Remotely-sensed images of the earth's surface are used across a wide range of industries and applications including agriculture, mining, defence, geography and geology, to name but a few. Hyperspectral sensors produce these images by providing reflectance data from the earth's surface over a broad range of wavelengths or bands. Some of the bands suffer from a low signal-to noise ratio (SNR) and do not contribute to the subsequent classification of pixels within the hyperspectral image. Users of	
	Keywords: SNR, classification, hyperspectral	
10	Interaction techniques: haptic and gestural: The GlobeFish and the GlobeMouse: two	
\rightarrow	new six degree of freedom input devices for graphics applications Bernd Froehlich, Jan Hochstrate, Verena Skuk, Anke Huckauf April 2006 Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06	
	Publisher: ACM Press	

Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, index terms

We introduce two new six degree of freedom desktop input devices based on the key concept of combining forceless isotonic rotational input with force-requiring elastic translational input. The GlobeFish consists of a custom three degrees of freedom trackball which is elastically connected to a frame. The trackball is accessible from the top and bottom and can be moved slightly in all spatial directions by using force. The GlobeMouse device works in a similar way. Here the trackball is placed on ...

Keywords: human factors, input devices, interaction techniques, user interface hardware

11 Instant data analysis: conducting usability evaluations in a day

Jesper Kjeldskov, Mikael B. Skov, Jan Stage

October 2004 Proceedings of the third Nordic conference on Human-computer interaction NordiCHI '04

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms, Full text available: pdf(848.31 KB) review

When designing a usability evaluation, key decisions must be made regarding methods and techniques for data collection and analysis. Although there is a strong body of research within human-computer interaction regarding the appropriate choices of data collection methods and techniques much less research has been conducted examining and comparing methods and techniques for analyzing the collected data. This paper presents a data analysis technique which allows usability evaluations to be cond ...

Keywords: data analysis, discount usability, usability evaluation

12 DATAPLOT—an interactive high-level language for graphics, non-linear fitting, data

analysis, and mathematics James J. Filliben

August 1981 ACM SIGGRAPH Computer Graphics, Proceedings of the 8th annual conference on Computer graphics and interactive techniques SIGGRAPH

'81, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, index terms

This paper describes the design philosphy and features of DATAPLOT—a high-level (freeformat English-like syntax) language for: 1) graphics (continuous or discrete); 2) fitting (linear or non-linear); 3) general data analysis; 4) mathematics. DATAPLOT was developed originally in 1977 in response to data analysis problems encount ...

Keywords: Computer graphics, Data analysis, Diagrams, Fitting, Graphics languages, High-level languages, Interactive computing, Mathematical modeling, Mathematics, Modeling, Portability, Scehematics, Software, Statistics

13 Application of intelligent agent technology for managerial data analysis and mining

Ranjit Bose, Vijayan Sugumaran

January 1999 ACM SIGMIS Database, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, citings, index terms

Data analysis and mining technologies help bring business intelligence into organizational

decision support systems (DSS). While a myriad of data analysis and mining technologies are commercially available today, organizations are seeing a growing gap between powerful storage (data warehouse) systems and the business users' ability to analyze and act effectively on the information they contain. We contend that to narrow this gap effectively, a data analysis and mining environment is needed that ...

Keywords: agent-based design, data mining, data warehouse, decision support systems, intelligent agents, multidimensional analysis, prototype implementation, statistical analysis, visualization

14 Design of the S system for data analysis

Richard A. Becker, John M. Chambers

May 1984 Communications of the ACM, Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(974.51 KB)

Additional Information: full citation, abstract, references, citings, index terms

S is a language and system for interactive data analysis and graphics. It emphasizes interactive analysis and graphics, ease of use, flexibility, and extensibility. While sharing many characteristics with other statistical systems, S differs significantly in its design goals, its implementation, and the way it is used. This paper presents some of the design concepts and implementation techniques in S and relates these general ideas in computing to the specific design goals for S and ...

Keywords: data analysis

15 A unified approach to test data analysis

Michael A. Gianfagna

June 1978 Proceedings of the 15th conference on Design automation DAC '78

Publisher: IEEE Press

Full text available: pdf(581.18 KB)

Additional Information: full citation, abstract, references, citings, index terms

To provide cost-effective performance evaluation or engineering feedback from circuit test results often requires that complex analyses be performed on large volumes of non-standard data. Using a large scale data management system and a modular design philosophy, a system to cope with the above requirements has been developed. TDAS (Test Data Analysis System) has provided timely and economic solutions to test data analysis problems which might have been intractable by other means.

16 Biclustering Algorithms for Biological Data Analysis: A Survey

Sara C. Madeira, Arlindo L. Oliveira

January 2004 IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), Volume 1 Issue 1

Publisher: IEEE Computer Society Press

Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings

Keywords: Biclustering, simultaneous clustering, coclustering, subspace clustering, bidimensional clustering, direct clustering, block clustering, two-way clustering, two-mode clustering, two-sided clustering, microarray data analysis, biological data analysis, gene expression data.

17 ③	Exploratory Data Analysis in a Study of the Performance of Nonlinear Optimization Routines David C. Hoaglin, Virginia Klema, Stephen C. Peters June 1982 ACM Transactions on Mathematical Software (TOMS), Volume 8 Issue 2	·
	Publisher: ACM Press Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms	
18	Exploratory sequential data analysis: traditions, techniques and tools Carolanne Fisher, Penelope Sanderson January 1993 ACM SIGCHI Bulletin, Volume 25 Issue 1 Publisher: ACM Press Full text available: pdf(701.04 KB) Additional Information: full citation, abstract, references, index terms	
,	In many areas of HCI, investigators make video or audio recordings of humans working with computers and other humans. These recordings capture verbalizations, actions, and often general aspects of the working environment as well. The investigator then explores and analyses these data in the light of some HCI research or design issue. Protocol analysis, video analysis, interaction analysis, conversation analysis, discourse analysis, sequential data analysis, task analysis, etc., are all examples	
19	Articles: Data analysis and mining in the life sciences Nam Huyn	
•	September 2001 ACM SIGMOD Record, Volume 30 Issue 3 Publisher: ACM Press	
	Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, citings, index terms	
	Biotech companies routinely generate vast amounts of biological measurement data that must be analyzed rapidly and mined for diagnostic, prognostic, or drug evaluation purposes. While these data analysis tasks are critical to their success, they have not benefited from recent advances that emerged from database and KDD research. In this paper, we focus on two such tasks: on-line analysis of clinical study data, and mining broad datasets for biomarkers. We examine the new requirements that are no	
20 ③	General considerations on the design of an interactive system for data analysis Robert F. Ling March 1980 Communications of the ACM, Volume 23 Issue 3	
•	Publisher: ACM Press	
	Full text available: pdf(916.88 KB) Additional Information: full citation, abstract, references, citings	
	Among the most important criteria in the design and implementation of an interactive system for data analysis are: data structure, control language, user interface, sytem versatility, extensibility, and portability. The design of an interactive system, viewed as a set of constrained decisions based on these criteria, will be discussed. The concepts and considerations discussed in this article about the design of interactive systems are general in nature and are neither problem-specific nor	
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